PATENT COOPERATION TREATY

From the	ΓΙΟΝAL SEARCI	HING AUTH	ORITY					
To: RICHARI CHARM 659 AND	D J. LONG SCIENCES, INC. OVER STREET NCE, MA 01843			PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
	•			III BIGVIII				
					(PCT Rule 43bis.1)			
				Date of mailing 19 MAY 2005 (day/month/year)				
Applicant's or agent's file reference				FOR FURTHER ACTION See paragraph 2 below				
0656-027	*		Transition of the second					
Internation	International application No.		International filing date	(day/month/year)	Priority date (day/month/year)			
	PCT/US04/41278 10 December 2004 (1 International Patent Classification (IPC) or both national classification		10 December 2004 (10.1		12 December 2003 (12.12.2003)			
		•						
IPC(7): A Applicant		d US Cl.: 422	2/1, 2, 21, 38, 307; 435/2; 1	165/65				
CHARM	SCIENCES, INC.							
1. This o	opinion contains i	ndications rel	ating to the following item	is:	•			
	Box No. I Basis of the opinion							
Box No. II Priority								
	Box No. III	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Box No. IV	Lack of unity of invention						
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
2 FIR	THER ACTIO	N						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
For further options, see Form PCT/ISA/220.								
3. For further details, see notes to Form PCT/ISA/220.								
Name and	mailing address o	of the ISA/119	<u> </u>	Authorized office	er			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US			-	Krisanne Jastrzab				
Commissioner for Patents P.O. Box 1450				Arisanne Jastrza	J			
Alexandria, Virginia 22313-1450 Faccimile No. (703) 305-3230				Telephone No. 703-308-0661				

Form PCT/ISA/237 (cover sheet) (January 2004)



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/41278

DUX IN	o. I Basis of this opinion
1 W.	d to the language, this enjoyen has been established on the basis of the international application in the language in
	regard to the language, this opinion has been established on the basis of the international application in the language in tilled, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the cition, this opinion has been established on the basis of:
a .	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing .
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has bee or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	tional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/41278

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims NONE	YES				
	Claims 1-96	NO				
Inventive step (IS)	Claims NONE	YES				
	Claims 1-96	NO NO				
Industrial applicability (IA)	Claims 1-96	YES				
	Claims NONE	NO				

2. Citations and explanations:

Claims 1-96 lack novelty under PCT Article 33(2) as being anticipated by Charm et al., U.S. patent No. 5,389,335.

Charm et al., teach reducing or inactivating viral and bacterial contamination of a proteinacious solution where the solution is rapidly heated using microwave radiation, followed by rapid cooling, both to temperatures and within the time parameters instantly claimed. The system included a disposable cartride employ TEFLON tubing, of a diameter as instantly claimed, for flow of the solution within the microwave field. The cartridge mounted on a removable plate. See column 1, lines 19-61, column 2, lines 10-16, 24-28 and 45-60, column 5, lines 10-68, particularly 50-55, column 6, lines 1-68 and column 8, lines 25-35.

Claims 1-96 lack novelty under PCT Article 33(2) as being anticipated by Charm U.S. patent No. 4,975,246.

Charm teaches reducing or inactivating viral and bacterial contamination of a proteinacious solution where the solution is rapidly heated using microwave radiation, followed by rapid cooling, both to temperatures and within the time parameters instantly claimed. See column 1, lines 29-32, column 2, lines 5-68, column 3, lines 25-32, column 5, lines 3-15, and column 6, lines 49-55.

